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have the analysis of the glass from the upper part, and under (III) that of the glass from the lower portion.

	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O		Total.	Sp.	Gr.
(I)	68.9	19.7	1.4	1.2	1.0	2.7	4.7	=	99.6		2.716
(II)	73.65	14.08	2.33	1.94	.65	2.61	3.86	=	99.12		2.2384
(III)	59.20	22.30	3.83	3.71	1.23	3.26	5.40	=	98.93		2.484

**The Basic Rocks of Ivrea.** — The basis rocks in the neighborhood of Ivrea, on the south side of the Alps, are shown by Schaefer<sup>1</sup> to be the result of cooling of a single magma. This yielded norites, diorites, gabbros, peridotites and both basic and acid dyke-rocks. The norites include hornblendic varieties, and the diorites, bronzitic, hornblendic, and biotitic phases. All these rocks have been subjected to the action of mountain-making forces. The norites have become schistose without suffering any essential mineralogical change. Some of the diorites have simply been made schistose, others have undergone a further change in that their dark, compact hornblende has passed over into a light green amphibole, while a final stage of alteration is represented by green schists, composed of zoisite, plagioclase, actinolite, chlorite, and epidote.

The dyke rocks cut the large basic masses and are always closely related to them chemically. The principal types are a labradorite (Labradorfels) and a fine-grained black rock which the author calls valbellite. This is made up of bronzite, olivine, and brown hornblende with pyrrhotite, spinel, and magnetite as accessories.

**The Basalts of Steiermark.** — Sigmund's<sup>2</sup> studies on the basalts of Steiermark are continued in an article in which are described the magma-basalts and basalt-tuffs of Fürstenfeld and the feldspar basalt of Weitendorf. The composition of the magma-basalt is shown by the figures below.

SiO <sub>2</sub>	TiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	CO <sub>2</sub>	H <sub>2</sub> O	Total.
46.76	tr.	5.33	5.62	17.93	8.24	7.31	3.53	2.20	1.33	1.83	= 100.08

**Petrographical Notes.** — Reinisch<sup>3</sup> has found a specimen of teschenite in the museum at Minussinsk. It is labeled as having come from east of the salt lake Staniza on the river Bjelyi-Jjuss, Minussinsk parish, Jenisseisk gouvernement, East Siberia. It resembles very closely the West Carpathian rock. Among the other specimens from

<sup>1</sup> *Min. u. Petrog. Mitth.*, vol. xvii, p. 495.

<sup>2</sup> *Ibid.*, p. 256.

<sup>3</sup> *Ibid.*, vol. xviii, p. 92.

the same region, melaphyres, melaphyre-tuffs, granites, amphibolites, and contact metamorphosed limestones have also been identified.

Becke<sup>1</sup> records an analysis of the leucite-basanite lava of 1891-93 from Vesuvius as follows :

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Total.
48.99	19.82	5.26	2.59	8.13	2.82	3.17	9.06	.33	= 100.17

The tonalite gneiss of Wistra, Carpathia, has the composition :

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	FeO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	Loss.	Total.
63.09	18.89	3.48	2.02	1.97	6.18	3.14	1.30	.63	= 100.70

Coleman<sup>2</sup> gives a few brief descriptions of some of the rocks met with in the course of his studies of the gold regions of Western Ontario. Among them are diorites, diorite gneisses, a porphyrite, a pyroxenite, and a hornblende porphyrite from Grand Presque Isle, Lake of the Woods. The hornblende porphyrite consists of phenocrysts of hornblende, containing in their interiors remnants of augite and a ground mass composed of quartz, plagioclase, augite, and some orthoclase. Near Peninsula and Port Caldwell, on the north shore of Lake Superior, are coarse diabases, gabbros, augite-diorite, and porphyrites, and associated with them are red rocks, called by the author augite-syenites, diorites, and syenites. Some of the augite-syenites are aggregates of orthoclase and augite, while others are made up largely of pegmatite. Near Lake Wahnapiat, in the Sudbury district, diabases, granite, arkoses, graywackes, and dolomites occur.

<sup>1</sup> *Min. u. Petrog. Mitth.*, vol. xviii, p. 94.

<sup>2</sup> *Rep. Bureau of Mines* (Ontario), 1898, p. 145.